Name: Date: Period:

**Scientific Method Quiz A**

**Define:**

1. science -- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. scientist -- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Matching: Match the skill to its definition**

1. \_\_\_\_\_ observing A) forecast of what will happen with prior knowledge

2. \_\_\_\_\_ inferring B) grouping things together on similarities

3. \_\_\_\_\_ predicting C) using senses to gather information

4. \_\_\_\_\_ classifying D) interpret or explain observations

**Multiple Choice: Circle the appropriate letter for the following statements.**

1. It will rain tomorrow.

A) observation B) inference C) prediction D) classify

2. Pens, pencils, and sharpies are all writing instruments.

A) observation B) inference C) prediction D) classify

3. Mrs. Wyland gets angry when students don’t complete their homework.

A) observation B) inference C) prediction D) classify

4. All orange objects.

A) observation B) inference C) prediction D) classify

5. The sky is blue.

A) observation B) inference C) prediction D) classify

6. Grass is green because of the chlorophyll inside the chloroplasts.

A) observation B) inference C) prediction D) classify

7. Mrs. Wyland has lots of earrings.

A) observation B) inference C) prediction D) classify

8. The sports’ teams will win their games.

A) observation B) inference C) prediction D) classify

**Fill in the blank:**

1. Questions asked in the scientific method must be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. In order for the question to be testable it must:

A)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Two words that must be in every hypothesis are: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Short answer: Create 2 matching questions and hypotheses.**

1. TQ -- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hyp -- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. TQ -- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hyp -- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Fill in the blank for the Steps in the Scientific Method:**

Posing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

sharing ideas \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ guess

Draw\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Design \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of what you learned

Collect and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Facts, figures, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Word bank**:

gather summary communicate

conclusions data evidence

hypothesis educated experiment

question

Name: Date: Period:

**Scientific Method Quiz A KEY**

**Define:**

1. science – study of the natural world

2. scientist – someone who studies science using the scientific method

**Matching: Match the skill to its definition**

1. C observing A) forecast of what will happen with prior knowledge

2. D inferring B) grouping things together on similarities

3. A predicting C) using senses to gather information

4. B classifying D) interpret or explain observations

**Multiple Choice: Circle the appropriate letter for the following statements.**

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8. The sports’ teams will win their games.

A) observation B) inference C) prediction D) classify

**Fill in the blank:**

1. Questions asked in the scientific method must be testable.

2. In order for the question to be testable it must:

A) be able to be tested

B) about objects, organisms, or events

3. Two words that must be in every hypothesis are: if and then.

**Short answer: Create 2 matching questions and hypotheses.**

1. TQ – What will happen if I don’t study?

Hyp – If I don’t study, then I won’t do well on the test.

2. TQ – Will I pass science class?

Hyp – If I study, complete all homework, and do well on tests, then I will pass science class.

**Fill in the blank for the Steps in the Scientific Method:**

Posing testable question

communicate Form hypothesis

sharing ideas educated guess

Draw conclusions Design experiment

summary of what you learned

Collect and gather data

Facts, figures, and evidence